

NASA IV&V Facility

Educator Resource Center

2010-2011 Webinar Calendar

The following workshops are offered from the comfort of your own home or classroom. You will need a high-speed Internet connection for all sessions while some sessions may require you to call in for the audio component. To register for a webinar, go to http://erc.ivv.nasa.gov and you will receive the log in information via email the week prior to the webinar. Many of the workshops are offered in collaboration with our partner ERCs across the nation. Sessions marked with the WV logo can be scheduled anytime by contacting the NASA IV&V ERC.



Robots Near and Far September 14, 5-6:30 pm From robotic explorers of our solar system to "ROOMBAs" at home, robots are a high-tech hot topic that can provide a cross-discipline adventure for your students! Join this session for an introduction to robotics basics, NASA robots, a tour of NASA's robotics classroom activities and resources, an overview of some popular robotics competitions, and some practical tips on how to incorporate robotics in your setting.

Presented by: Karen Kelley, Marshall Space Flight Center ERC.

Black Holes 101 October 16, 10:30 am- 12 pm What exactly are black holes; where are they and how do we know if we can't see them? This workshop will answer questions about these mysterious objects in our universe. Discover activities to teach students about black holes and how to access free astronomy teaching and learning tools.

Presented by: Debra Homeier and Scott Stobbelaar: Seaborg Planetarium ERC; and Chris Standerford: Shiras Planetarium.

Invite NASA to Your Science Fair Nov. 18, 1- 2 pm Join us as we go step-by-step through the science fair process and take the mystery out of the scientific method. This workshop will introduce you to a NASA hands-on activity and speed you on the way to a successful science fair project.

Presented by: Kathy Larsen, Special Programs Manager - Science Central ERC **Cosmic Kids Chemistry** December 7, 3- 5 pm Amaze your students and catch them learning with inquiry as everyday materials are combined with NASA's unique science and educational materials that explode upon your classroom. A little messy, but definitely worth it!

Presented by: Jackie Wortmann, Missouri NASA Educator Resource Center, Southeast Missouri State University, Cape Girardeau, MO

Lunar Nautics January 11, 3- 5 pm Students assume roles of workers at a fictional aerospace company specializing in mission management, lunar habitat, and exploration design. The included activities emphasize the science, math and teamwork needed to support living on the moon.



Presented by: Pam Casto, NASA IV&V Facility ERC

NASA Online Toolkits January 22, 11 am— 12:30 pm NASA's Aerospace Education Services Project provides online NASA-themed Toolkits which provide collections of curricula, activities, images, videos, datasets, and other materials, as well as evaluative notes and suggestions for using and adapting the materials classrooms. This workshop introduces the Lunar and Solar Exploration Toolkits and explains how they can be used to engage students in space science. The interactive workshop includes an activity from each of the Toolkits.

Presented by: Lindsey B. Keith-Vincent, Louisiana Tech University SciTEC, ERC

NASA DIY Podcast
January 29, 11 am- 12:30 pm
Both you and your students can create
podcasts using free NASA video footage,
audio clips, and images. In this session
you will learn about DIY Podcasting and be
taken step-by-step through building an
audio podcast and a video podcast.

Presented by: Denise Miller, NASA Educational Technology Services, Marshall Space Flight Center.

Living with a Star February 18, 5:30-7:30 pm Far from being a flat yellow circle on a drawing, our Sun is a boiling, stormy star that blows off gas! Come learn about the Sun and how it makes "Space Weather," influencing human space travel, satellites in space, our atmosphere and sometimes humans on Earth. We'll explore some hands-on activities and some of NASA's greatest new solar images, videos and resources.

Presented by: Karen Kelley, Marshall Space Flight Center ERC) and MSFC Astrophysicists Dr. David Hathaway and Mitzi Adams.

Intro. to Podcasting February 22, 3– 4:30 pm Dispel the myths of podcasting and learn to find, manage, and use dozens of brand new NASA podcasts effectively in your classroom. We will demonstrate just how easily your students can create online scientific multimedia productions using NASA resources.

Presented by: Todd Ensign, NASA IV&V Facility ERC

Comets and Asteroids-Oh My! March 5,11-12:30 pm Comets and asteroids are elusive bodies in our Solar System whose evolution and composition have been speculated, but there has been little conclusive data to support particular theories. Scientists have begun to aggressively investigate them, resulting in a barrage of NASA missions due to encounter and orbit a variety of asteroids and comets in the coming year. Through these missions we hope to understand our own planet and formation of the early solar system. Join us to explore these missions as well as related classroom activities that engage students in the science of comets and asteroids.

Presented by: Aimee Meyer and Tim Larson, NASA's Jet Propulsion Laboratory

Sun Earth Day and Space Weather Action Centers

March 8, 3-4:30 pm

Get ready to celebrate Sun Earth Day 2011 by learning how your students can access the amazing online resources and how they can create their very own space weather report and publish it as a podcast.

Presented by: Todd Ensign, NASA IV&V ERC, WV

Rockin' Through the Rock Cycle March 17, 3- 5 pm Stomp on the ground! Look in the sky! You will find rocks that need investigating throughout our solar system. Learn techniques that will engage your learners as they learn the rock cycle, how rocks are formed, and participate in hands-on activities.

Presented by: Jackie Wortmann, Southeast Missouri State University ERC

Intro. to GPS April 2, 11 am- 12 pm

The Global Positioning System is an engaging educational tool for teaching students science, mathematics, and technology. This session will introduce teachers to the science behind GPS, engaging activities including determining the size of the Earth, and will cover associated NASA resources to aid in teaching GPS to students.

Presented by: Todd Ensign, NASA IV&V ERC, WV

NASA for the Elementary Crowd April 16, 11- 12 pm Blast off for fun as we explore the world of NASA and activities dealing with soils, seasons, life cycles, water, weather, force and motion, measurement, process skills, numbers, alphabet, living in space, rockets, space craft through science, math, technology and language arts. Using educator guides and lessons from 3, 2, 1 Lift Off, Living with a Star, Reading, Writing and Rings (Saturn), and K-4 Elementary GLOBE, this session will use math, science and literacy to integrate content and concepts pertinent to the elementary classroom.

Presented by: Lynne Hehr, Arkansas NASA ERC

New Horizons: Mission to Pluto May 7, 11- 12 pm NASA's New Horizons is the first mission to study our Solar System's icy dwarf planets of the Kuiper Belt. Launched in '06, it is now halfway to its destination. Join us to explore this important mission to study planetary formation, atmospheres, and origins of life. The session introduces fun, engaging hands-on activities that can be used in workshops and classrooms to teach about Pluto and the Kuiper Belt.

Presented by: Pam Casto, NASA IV&V Facility ERC, WV

To Book a webinar for your school, county, or organization, contact the NASA IV&V ERC at: erc@ivv.nasa.gov or 304-367-8436.

We offer sessions from hi-tech, to low-tech, to notech using IP video conferencing, interactive webbased sessions, or even teleconferences.